



IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re Application of:

Iain Cooper, et al.

§ Art Unit No.: 3672

Serial No.: 10/604,714

§ Examiner:

Filed: August 12, 2003

§

For: Hydraulic Optimization of Drilling Fluids  
In Borehole Drilling

§ Docket No.: 78.1134

§

**TRANSMITTAL LETTER**

April 27, 2005

Honorable Commissioner for Patents  
P.O. Box 1450  
Alexandria, VA 22313-1450

**CERTIFICATE OF MAILING**

37 C.F.R. 1.10

I hereby certify that this correspondence is being deposited with the United States Postal Service as US mail addressed to: Commissioner for Patents, P.O. Box 1450, Alexandria, VA, D.C. 22313-1450 on the date indicated below.

4/27/05

Date

Signature

Dear Sir:

Enclosed in connection with the above-captioned application are:

1. Transmittal Letter
2. Information Disclosure Statement
3. PTO/SB/08A *Information Disclosure Statement By Applicant*
4. Copies of Foreign Patents
5. Return Receipt Card

No fee is believed to be due at this time; however, the Commissioner is hereby authorized to charge any additional fees that may be required at any time during the prosecution of this application without specific authorization, or credit any overpayment, to Deposit Account No. 180584.

Respectfully submitted,

Jeffery E. Daly  
Reg. No. 44,640  
Customer No. 26932

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**Serial No.: 10/604,714**

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## **For: Hydraulic Optimization of Drilling Fluids In Borehole Drilling**

Art Unit No.: 3672

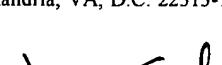
## **Examiner**

Docket No.: 78.1134

April 27, 2005

Honorable Commissioner for Patents  
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<u>4/27/05</u> Date	<u></u> Signature

**INFORMATION DISCLOSURE STATEMENT  
UNDER 37 C.F.R. §§ 1.97 and 1.98**

In compliance with the duty of disclosure under 37 C.F.R. § 1.56, it is respectfully requested that this Information Disclosure Statement be entered and the reference listed on the attached Form PTO/SB/08A be considered by the Examiner and made of record. Copies of the listed non-U.S. references are enclosed for the convenience of the Examiner.

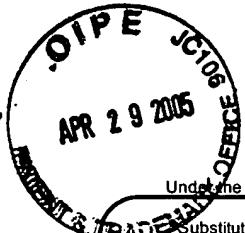
In accordance with 37 C.F.R. § 1.97(g), this Information Disclosure Statement is not to be construed as a representation that a search has been made or that no other possibly material information as defined 37 C.F.R. § 1.56(b) exists. Furthermore, pursuant to 37 C.F.R. § 1.97(h), the filing of this statement shall not be construed to be an admission that the information cited in the statement is, or is considered to be, material to patentability as defined in 37 C.F.R. § 1.56(b).

Respectfully submitted

  
Jeffery E. Daly  
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Customer No. 26932

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substitute for form 1449/PTO

## INFORMATION DISCLOSURE STATEMENT BY APPLICANT

(Use as many sheets as necessary)

Sheet 1

of 1

**Complete if Known**

Application Number	10/604,714
Filing Date	August 12, 2003
First Named Inventor	Cooper
Art Unit	3672
Examiner Name	

Attorney Docket Number 78.1134

**U. S. PATENT DOCUMENTS**

Examiner Initials*	Cite No. <sup>1</sup>	Document Number	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
		Number-Kind Code <sup>2</sup> (if known)			
		US- 3766992 B1	10/23/1973	Tirapolsky, et al.	
		US- 3802515 B1	04/09/1974	Flamand, et al.	
		US- 4313570 B1	02/02/1982	Olsen	
		US- 4343370 B1	08/10/1982	Chatard et al.	
		US- 4452322 B1	06/05/1984	Jurgens	
		US- 4637479 B1	01/20/1987	Leising	
		US- 4688647 B1	08/25/1987	Daly et al.	
		US- 4755016 B1	07/05/1988	DeLoach Jr et al.	
		US- 4836301 B1	06/06/1989	Van Dongen et al.	
		US- 4926949 B1	05/22/1990	Forrest	
		US- 5199516 B1	04/06/1993	Fernandez	
		US- 5651421 B1	07/29/1997	Newton et al.	
		US- 5679894 B1	10/21/1997	Kruger et al.	
		US- 5699868 B1	12/23/1997	Caraway et al.	
		US- 5911285 B1	06/15/1999	Stewart et al.	
		US- 5967244 B1	10/19/1999	Arfele	
		US- 6098728 B1	08/08/2000	Wells et al.	
		US- 6227316 B1	05/08/2001	Rohde	
		US- 2003/0010532 A1	01/16/2003	Kristiansen et al.	

**FOREIGN PATENT DOCUMENTS**

Examiner Initials*	Cite No. <sup>1</sup>	Foreign Patent Document	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages Or Relevant Figures Appear	T <sup>6</sup>
		Country Code <sup>3</sup> -Number <sup>4</sup> -Kind Code <sup>5</sup> (if known)				
		WO 01/98660 A2	12/27/2001	Weatherford		
		EP 0131451 A2	01/16/1985	Intech Oil Tool		
		GB 2345934 A	07/26/2000	Baker Hughes		

Examiner  
SignatureDate  
Considered

\*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant. <sup>1</sup>Applicant's unique citation designation number (optional). <sup>2</sup>See Kinds Codes of USPTO Patent Documents at [www.uspto.gov](http://www.uspto.gov) or MPEP 901.04. <sup>3</sup>Enter Office that issued the document, by the two-letter code (WIPO Standard ST.3). <sup>4</sup>For Japanese patent documents, the indication of the year of the reign of the Emperor must precede the serial number of the patent document. <sup>5</sup>Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST.16 if possible. <sup>6</sup>Applicant is to place a check mark here if English language Translation is attached.

This collection of information is required by 37 CFR 1.97 and 1.98. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 2 hours to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.

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